

**FY 2011 Defense Appropriations Requests:**

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**- ACES Material Additive to Improve Diesel Engine Efficiency**

**Perimeter Enterprises**

**4673 State Route 160**

**Bidwell, OH 45614**

**\$3,000,000** The applicant believes this is a valuable use of taxpayers' money as it will

provide further testing and evaluation of ACESII, a diesel fuel catalyst that increases fuel efficiency. It will also benefit the environment by prolonging engine life and reducing our dependence on foreign oil. Through tests ACESII has been shown to reduce fuel consumption and emissions by about 20%. In a partnership with the Army Research Lab, ACESII would be further tested and analyzed.

The applicant also believes this is a valuable use of the taxpayers' money because any expansion in ACESII would mean business for Ohio companies as distributors, manufacturers, and brokers of ACESII. In addition, ACESII would create approximately 200 jobs in the first 5 years of the completed program.

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**- Advanced Aerospace GRAFOAM® Heat Exchangers**

**Ohio Aerospace Institute**

**Ohio University**

**Cutler Hall**

**Athens, OH 45701**

**\$4,000,000** The applicant believes this is a valuable use of taxpayers' money as it will

improve our national security. The carbon foam based heat exchangers developed during this project are a light-weight alternative that will help numerous military weapons systems with heat management issues resulting from increased usage of heat-producing electronics.

The applicant also believes this is a valuable use of the taxpayers' money , because the team will be instrumental in conducting research that will ultimately lead to the creation of a highly trained and skilled work force.

- **Distributed Power from Wastewater**

**Ohio University**

**Cutler Hall**

**Athens County, OH 45701**

**\$1,500,000** The applicant believes this is a valuable use of taxpayers' money as it will provide environmental and national security benefits by creating technology that will make military base camps more self-sufficient and more energy efficient. The new technology could reduce ammonia emissions by up to 37% and reduce CO2 emissions by at least 1%. In addition, by using human waste as fuel, base camps have to transport less fuel which not only makes them more mobile, it would reduce our reliance on imported sources of energy. The applicant also believes this is a valuable use of the taxpayers' money because this project will significantly boost an economically distressed region of Ohio as new manufacturing plants that will produce this technology are projected to provide at least 100 jobs within the next four years.